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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/652,477	08/31/2000	Michael Sokol	023925-00011	2877

32294 7590 01/03/2005

SQUIRE, SANDERS & DEMPSEY L.L.P.  
14TH FLOOR  
8000 TOWERS CRESCENT  
TYSONS CORNER, VA 22182

EXAMINER
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NGUYEN, HUNG T

ART UNIT	PAPER NUMBER
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2636

DATE MAILED: 01/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/652,477

Applicant(s)

SOKOL ET AL.

Examiner

Hung T. Nguyen

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 November 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,3-5 and 7-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1,4 and 5 is/are allowed.
- 6) ☒ Claim(s) 7-10 is/are rejected.
- 7) ☒ Claim(s) 3 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Claim Objections***

1. Claim 3 is objected to because of the following informalities: Claim 2 is cancelled. Therefore, claim 3 can NOT be dependent on claim 2. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ahne et al. (U.S. 6,133,844) in view of Naylor (U.S. 5,506,767).

Regarding claim 7, Ahne discloses a method of operating a display system comprising the step of:

- providing event signals (220,220) representative a condition of a system to a programmable controller (20) [ figs.3-6, col.1, lines 29-56 , col.2, line 62 to col.3, line 5, col.3, lines 52-60 col.4, lines 32-52 and abstract ];

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- generating signals representative of system state in response to the event signals (200,220) [ figs.3-6, col.1, lines 29-56 , col.2, line 62 to col.3, line 5, col.3, lines 52-60 col.4, lines 32-52 and abstract ];
- display a visual representative of information (200,220) representing system state [figs.3-4, col.1, lines 29-56, col.3, lines 52-62 and col.4, lines 32-52 ];
- providing programming information to the programmable controller (20) [ figs.3-6, col.1, lines 29-56 , col.2, line 62 to col.3, line 5, col.3, lines 52-60 col.4, lines 32-52 and abstract ].

Ahne does not specifically disclose the system has a plurality of ports .

Ports are hardware component devices for receiving data information from a programmable controller which to program information defining a selected display state associated with each of states of the communication system.

Naylor teaches an electronic system has a plurality of ports (11A-P), with at least one port of the plurality of ports providing at least one event signals, where the at least event signal carries information on a status of the at least one port with respect to transmission and receipt of data by the at least one port which is controlled by a controller (14) [ figs.1, 3B-E, col.1, lines 44-66, col.2, lines 9-29 , col.2, line 65 to col.3, line 17 and col.3, lines 37-65 ].

Therefore, it would have been obvious to one having ordinary skill in the art to employ the teaching of Naylor in the communication system of Ahne for storing / receiving a plurality the event signals in the plurality of ports and providing at least one of the event signals as desired.

Regarding claim 8, Ahne discloses a programmable controller (20) for controlling a display device (200,220) based on event information indicative of a current one of a set of predefined states of a communication system(10), comprising:

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- a programmable controller (20) responsive to programming information defining a selected associated with each of the states of the communication system (10), the programmable controller being operative to generate a control signal indicative of a current display state (200,220) based on the current of the communication system and the programming information [ figs.3-6, col.1, lines 29-56 , col.2, line 62 to col.3, line 5, col.3, lines 52-60 col.4, lines 32-52 and abstract ].

Regarding claim 9, Ahne discloses a programmable controller (20) for controlling a display device (200,220) based on event information indicative of a current one of a set of predefined states of a communication system(10), comprising:

- a programmable controller (20) responsive to programming information defining a selected associated with each of the states of the communication system (10), the programmable controller being operative to generate a control signal indicative of a current display state (200,220) based on the current of the communication system and the programming information [ figs.3-6, col.1, lines 29-56 , col.2, line 62 to col.3, line 5, col.3, lines 52-60 col.4, lines 32-52 and abstract ].

Ahne does not specifically disclose the system has a plurality of ports .

Ports are hardware component devices for receiving data information from a programmable controller which to program information defining a selected display state associated with each of states of the communication system.

Naylor teaches an electronic system has a plurality of ports (11A-P), with at least one port of the plurality of ports providing at least one event signals, where the at least event signal carries information on a status of the at least one port with respect to transmission and receipt of

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data by the at least one port which is controlled by a controller (14) [ figs.1, 3B-E, col.1, lines 44-66, col.2, lines 9-29 , col.2, line 65 to col.3, line 17 and col.3, lines 37-65 ].

Therefore, it would have been obvious to one having ordinary skill in the art to employ the teaching of Naylor in the communication system of Ahne for storing / receiving a plurality the event signals in the plurality of ports and providing at least one of the event signals as desired.

Regarding claim 10, Ahne clearly discloses the programmable controller (20) includes a memory (22) to allow a user to program characteristics of at least one light emitting diode (LED) in order to convey information about the operation status of an apparatus such as a printer [ figs.3-6, col.1, lines 29-56 , col.2, line 62 to col.3, line 5, col.3, lines 52-60 col.4, lines 32-52 and abstract ];

- the programmable controller (20) responsive to programming information defining a selected associated with each of the states of the communication system (10), the programmable controller being operative to generate a control signal indicative of a current display state (200,220) based on the current of the communication system and the programming information [ figs.3-6, col.1, lines 29-56 , col.2, line 62 to col.3, line 5, col.3, lines 52-60 col.4, lines 32-52 and abstract ].

***Allowable Subject Matter***

4. Claims 1 & 4-5 are allowed.

**Arguments & Responses**

5. Applicant's argument filed on Nov. 10, 2004 have been fully considered but they are not persuasive reasons.

**Applicant's Arguments:**

A) The applicant states that the system of Ahne fails to teach or suggest all of the elements of claims 7-10.

B) The applicant states the system of Naylor does not disclose a plurality of ports, with at least one port of the plurality of ports providing at least one of the event signals, where the at least one event signal carries information on a status of the at least one port with respect to transmission and receipt of data by the at least one port.

C) Both references of Ahne and Naylor fail to disclose all limitation in claims.

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Response to the arguments:

A) Ahne discloses **at least two elements** as a programmable controller (20) for controlling a display device (200,220) based on event information indicative of a current one of a set of predefined states of a communication system(10), comprising:

- a programmable controller (20) responsive to programming information defining a selected associated with each of the states of the communication system (10), the programmable controller being operative to generate a control signal indicative of a current display state (200,220) based on the current of the communication system and the programming information [ figs.3-6, col.1, lines 29-56 , col.2, line 62 to col.3, line 5, col.3, lines 52-60 col.4, lines 32-52 and abstract ].
- display a visual representative of information (200,220) representing system state [ figs.3-4, col.1, lines 29-56, col.3, lines 52-62 and col.4, lines 32-52 ].

B) Naylor teaches an electronic system has a plurality of ports (11A-P), with at least one port of the plurality of ports providing at least one event signals, where the at least event signal carries information on a status of the at least one port with respect to transmission and receipt of data by the at least one port which is controlled by a controller (14) [ figs.1, 3B-E, col.1, lines 44-66, col.2, lines 9-29 , col.2, line 65 to col.3, line 17 and col.3, lines 37-65 ].

C) The references of Ahne & Naylor are both directed to the electronic displaying system which can be combined to reject all limitations in a plurality of claims in the following:

Regarding claims 7 & 9, Ahne discloses an apparatus comprising:



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- a programmable controller (20) operative to determine a present state of a system based on event signals received from the system, the programmable controller (20) providing a signal representative of the system state [ figs.3-6, col.1, lines 29-56 , col.2, line 62 to col.3, line 5, col.3, lines 52-60 col.4, lines 32-52 and abstract ];
- a display device / LED (200,220) operative to provide a visual representation of the state of the system in response to the control signal [figs.3-4, col.1, lines 29-56, col.3, lines 52-62 and col.4, lines 32-52 ].

Ahne does not specifically disclose a technical term as a drive operative to generate a control signal in response to the signal provided by the programmable controller and the system has a plurality of ports for receiving data information from a programmable controller which to program information defining a selected display state associated with each of states of the communication system.

However, Ahne clearly discloses the programmable controller (20) includes a memory (22) to allow a user to program characteristics of at least one light emitting diode (LED) in order to convey information about the operation status of an apparatus such as a printer [ figs.3-6, col.1, lines 29-56 , col.2, line 62 to col.3, line 5, col.3, lines 52-60 col.4, lines 32-52 and abstract ].

Therefore, it would have been obvious to one having ordinary skill in the art to employ any well known technique such as the claimed programmable controller (20) with the memory (24) to generating a control signal in response to the signal provided by the programmable controller for providing a plurality visual signals relating a particular operational status condition of the printer.

Naylor teaches an electronic system has a plurality of ports (11A-P), with at least one port of the plurality of ports providing at least one event signals, where the at least event signal carries information on a status of the at least one port with respect to transmission and receipt of

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data by the at least one port which is controlled by a controller (14) [ figs.1, 3B-E, col.1, lines 44-66, col.2, lines 9-29 , col.2, line 65 to col.3, line 17 and col.3, lines 37-65 ].

Therefore, it would have been obvious to one having ordinary skill in the art to employ the teaching of Naylor in the communication system of Ahne for storing / receiving a plurality the event signals in the plurality of ports and providing at least one of the event signals as desired.

### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung T. Nguyen whose telephone number is (571) 272-2982. The examiner can normally be reached on Monday to Friday from 8:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hofsass, Jeffery can be reached on (571) 272-2981. The fax phone number for this Group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4700.

A handwritten signature in black ink, appearing to read "Hung T. Nguyen". The signature is stylized with a large, looped "H" and a long, sweeping underline.

Examiner: Hung T. Nguyen

Date: Dec. 23, 2004